

Glutaric acid, hex-4-yn-3-yl 4-biphenyl ester

Inchi:

lnchl=1S/C23H24O4/c1-3-9-20(4-2)26-22(24)12-8-13-23(25)27-21-16-14-19(15-17-21)1

InchiKey:

XFZLKYYXIBENKO-UHFFFAOYSA-N

Formula:

C23H24O4

SMILES:

CC#CC(CC)OC(=O)CCCC(=O)Oc1ccc(-c2ccccc2)cc1

Mol. weight [g/mol]:

364.43

Physical Properties

Property code	Value	Unit	Source
gf	90.49	kJ/mol	Joback Method
hf	-279.04	kJ/mol	Joback Method
hfus	48.19	kJ/mol	Joback Method
hvap	92.08	kJ/mol	Joback Method
log10ws	-6.92		Crippen Method
logp	4.774		Crippen Method
mcvol	293.690	ml/mol	McGowan Method
pc	1575.95	kPa	Joback Method
rinpol	2898.00		NIST Webbook
rinpol	2898.00		NIST Webbook
tb	945.12	K	Joback Method
tc	1182.31	K	Joback Method
tf	649.75	K	Joback Method
vc	1.111	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	901.62	J/mol×K	945.12	Joback Method
cpg	915.35	J/mol×K	984.65	Joback Method
cpg	927.63	J/mol×K	1024.18	Joback Method
cpg	938.51	J/mol×K	1063.72	Joback Method
cpg	948.06	J/mol×K	1103.25	Joback Method
cpg	956.31	J/mol×K	1142.78	Joback Method
cpg	963.32	J/mol×K	1182.31	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U390124&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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